

Title (en)

Method of manufacturing a separator for a fuel cell

Title (de)

Verfahren zur Herstellung eines Separators für eine Brennstoffzelle

Title (fr)

Procédé de fabrication d'un séparateur pour une pile à combustible

Publication

EP 0933825 B1 20131023 (EN)

Application

EP 99100821 A 19990118

Priority

JP 2275298 A 19980119

Abstract (en)

[origin: EP0933825A2] A separator for a fuel cell is manufactured by preparing a raw material powder, uniformly mixing the prepared raw material to be formed into a slurry, and charging the raw material powder derived from granulation into a metal mold for heat press forming. The raw material is obtained by adding to carbon powder a binder containing a mixture of phenolic resin and epoxy resin. Therefore the heat press forming step does not cause the binder to generate gas, thus allowing manufacturing of a separator exhibiting sufficient gas-impermeability. <IMAGE>

IPC 8 full level

H01M 8/02 (2006.01); **B29B 9/12** (2006.01); **B29C 43/00** (2006.01); **C04B 26/14** (2006.01)

CPC (source: EP US)

B29B 9/12 (2013.01 - EP US); **B29C 43/003** (2013.01 - EP US); **B29C 43/006** (2013.01 - EP US); **C04B 26/14** (2013.01 - EP US); **H01M 8/0213** (2013.01 - EP US); **B29K 2063/00** (2013.01 - EP US); **B29K 2707/04** (2013.01 - EP US); **C04B 2111/00853** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP US)

C-Set (source: EP US)

C04B 26/14 + **C04B 14/024** + **C04B 24/302** + **C04B 40/00** + **C04B 40/0082** + **C04B 41/53**

Cited by

DE10256922B4; EP1011164A3; EP1253659A4; EP1406327A4; EP1168473A3; EP1253658A4; EP1083034A3; EP1223630A3; EP1200244A4; EP1298748A3; EP1118442A3; EP1826848A4; EP1253657A4; EP1265303A4; CN103000911A; DE112004002214B4; EP1217675A3; US7968251B2; US6706437B2; WO0235630A1; WO0222699A1; WO0235631A1; WO02065567A1; WO0235629A1; US7452624B2; US8211593B2; US7325432B2; US7494740B2

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